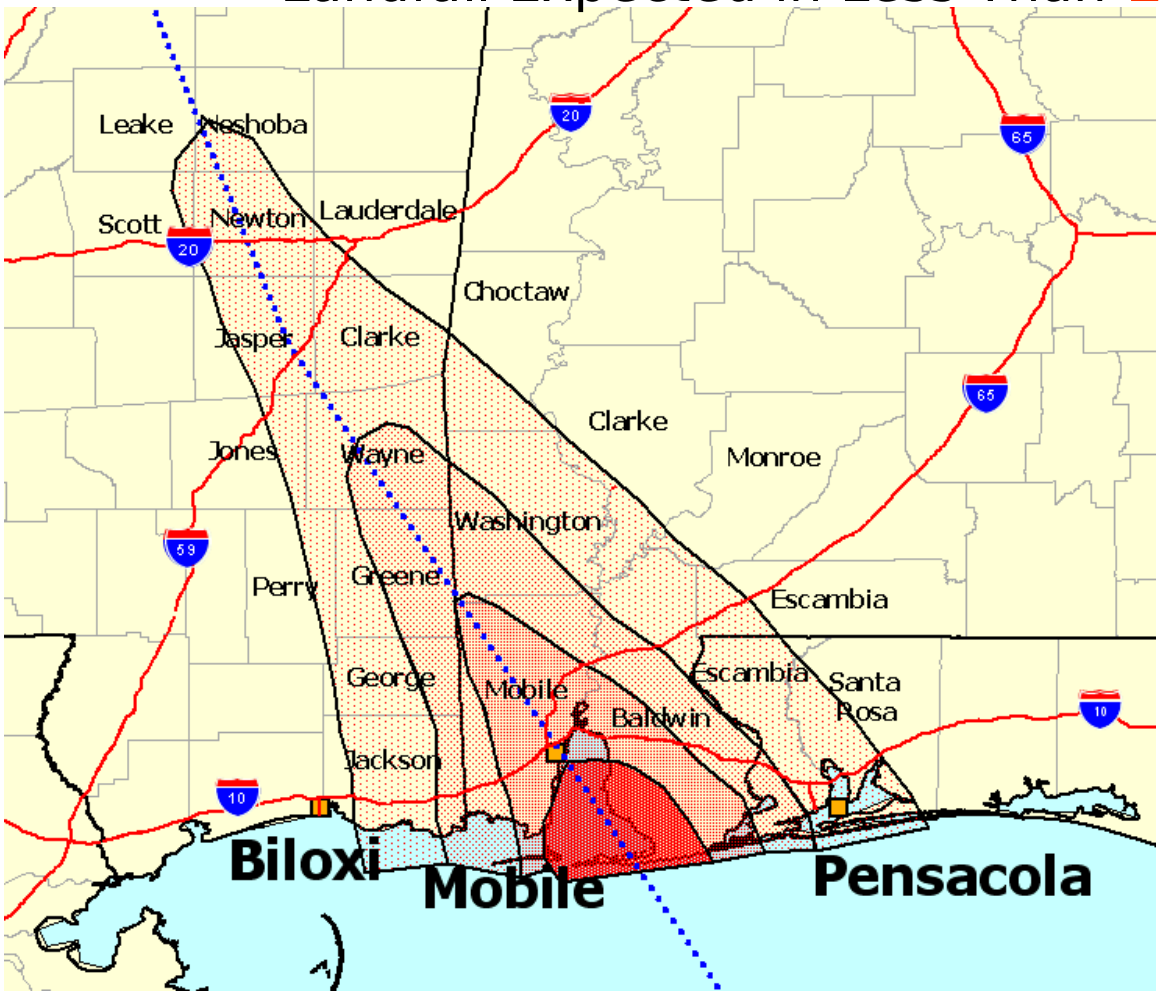
Hurricane Dennis Wind Distribution

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Wind Field

Sources:
HURREVAC
LRL-DEBRIS

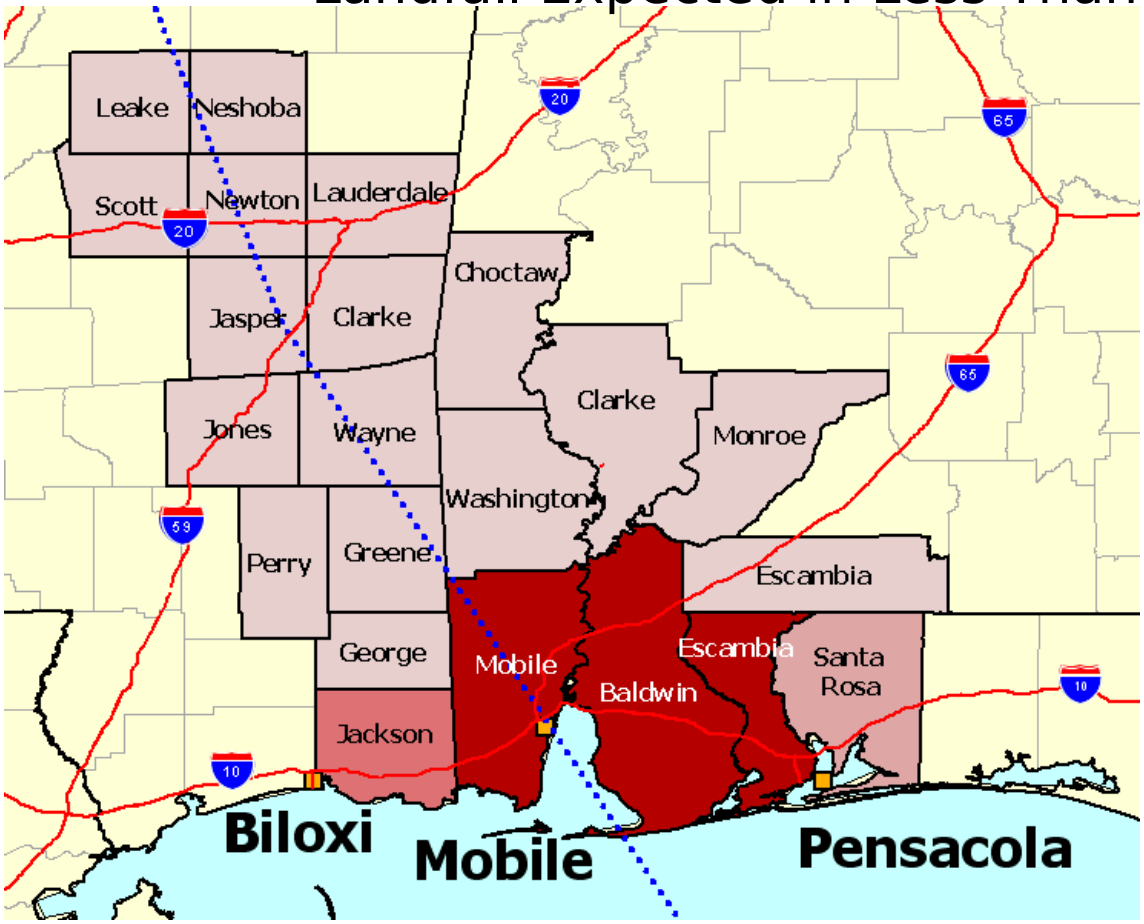
Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/10/2005

Hurricane Dennis Debris Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida –2,503,000 yd^3
Alabama –10,687,000 yd^3
Mississippi –1,023,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/10/2005

Hurricane Dennis Debris Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!

State	Yards per State	County	Yards per County
Alabama	10,687,000		
		Baldwin	3,175,000
		Choctaw	32,000
		Clarke	40,000
		Escambia	56,000
		Mobile	7,220,000
		Monroe	8,000
		Washington	156,000
Florida	2,503,000		
		Escambia	2,068,000
		Santa Rosa	435,000
Mississippi	1,023,000		
		Clarke	47,000
		George	131,000
		Greene	112,000
		Jackson	292,000
		Jasper	62,000
		Jones	32,000
		Lauderdale	34,000
		Leake	11,000
		Neshoba	17,000
		Newton	63,000
		Perry	36,000
		Scott	14,000
		Wayne	172,000
TOTAL	14,213,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

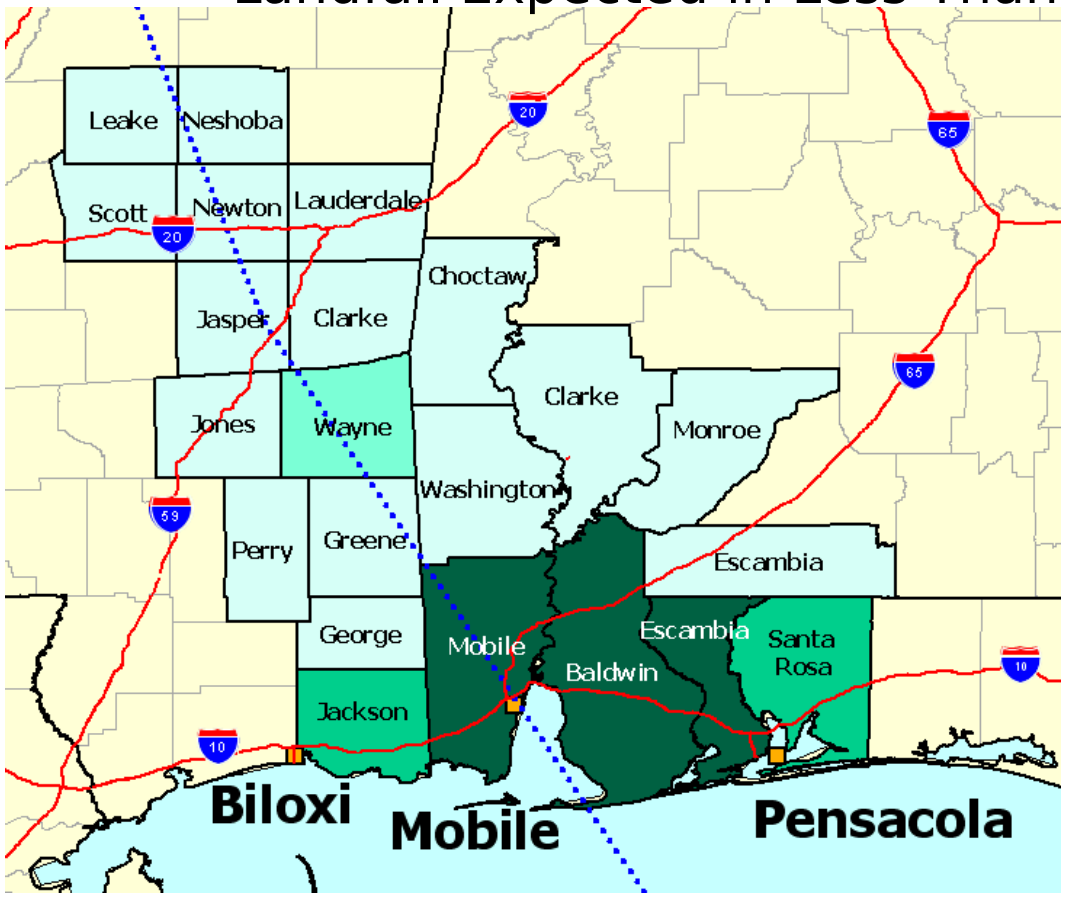
Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/10/2005

Hurricane Dennis Ice Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Ice Model Results

Florida – 933,000 pounds
Alabama – 2,530,000 pounds
Mississippi – 545,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Ice Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!

State	Pounds per State	County	Pounds per County	Truckloads
Alabama	2,530,000			
		Baldwin	605,000	16
		Choctaw	11,000	1
		Clarke	14,000	1
		Escambia	31,000	1
		Mobile	1,824,000	46
		Monroe	1,000	1
		Washington	44,000	2
Florida	933,000			
		Escambia	720,000	18
		Santa Rosa	213,000	6
Mississippi	545,000			
		Clarke	39,000	1
		George	43,000	2
		Greene	32,000	1
		Jackson	249,000	7
		Jasper	24,000	1
		Jones	25,000	1
		Lauderdale	4,000	1
		Leake	2,000	1
		Neshoba	11,000	1
		Newton	49,000	2
		Perry	10,000	1
		Scott	6,000	1
		Wayne	51,000	2
TOTAL	4,008,000			114

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

Sources:
HURREVAC
LRL-DEBRIS

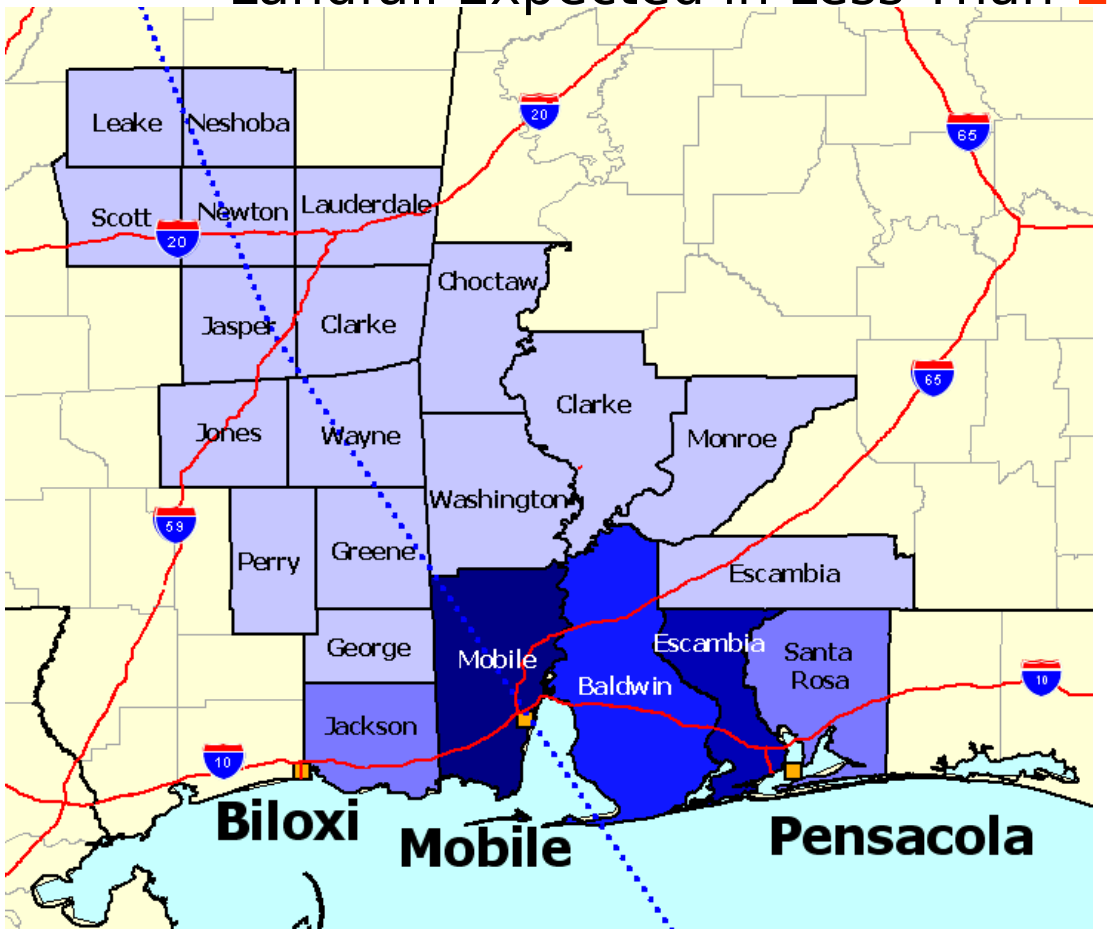
Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Water Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida –350,000 Liters
Alabama – 949,000 Liters
Mississippi – 205,000 Liters

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Water Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!

State	Liters per State	County	Liters per County	Truckloads
Alabama	949,000			
		Baldwin	227,000	13
		Choctaw	4,000	1
		Clarke	5,000	1
		Escambia	12,000	1
		Mobile	684,000	38
		Monroe	1,000	1
		Washington	16,000	1
Florida	350,000			
		Escambia	270,000	15
		Santa Rosa	80,000	5
Mississippi	205,000			
		Clarke	15,000	1
		George	16,000	1
		Greene	12,000	1
		Jackson	93,000	6
		Jasper	9,000	1
		Jones	10,000	1
		Lauderdale	2,000	1
		Leake	1,000	1
		Neshoba	4,000	1
		Newton	18,000	1
		Perry	4,000	1
		Scott	2,000	1
		Wayne	19,000	2
TOTAL	1,504,000			95

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

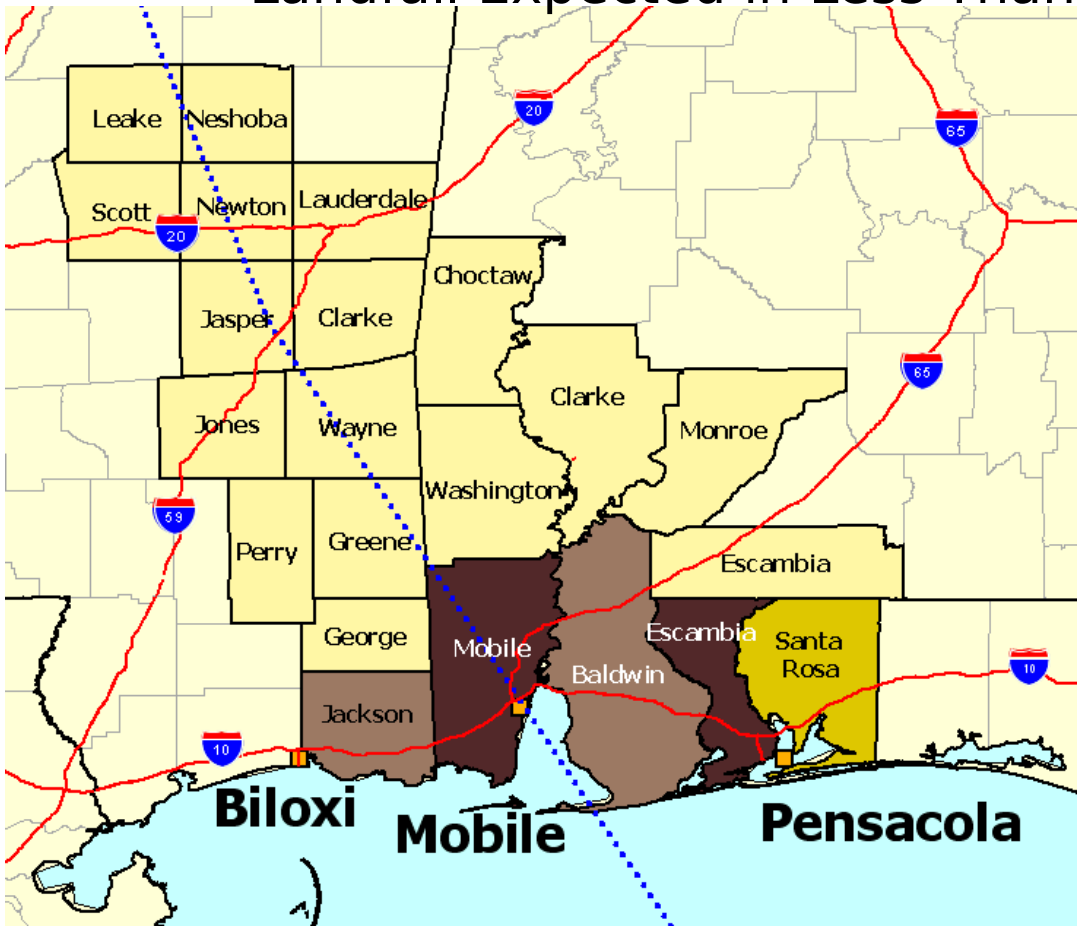
Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Population Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 385,000 persons
Alabama – 582,000 persons
Mississippi – 227,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Population Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!

State	Population per State	County	Population per County
Alabama	582,000		
		Baldwin	140,000
		Choctaw	4,000
		Clarke	6,000
		Escambia	13,000
		Mobile	400,000
		Monroe	1,000
		Washington	18,000
Florida	385,000		
		Escambia	296,000
		Santa Rosa	89,000
Mississippi	227,000		
		Clarke	16,000
		George	18,000
		Greene	13,000
		Jackson	104,000
		Jasper	10,000
		Jones	11,000
		Lauderdale	2,000
		Leake	1,000
		Neshoba	4,000
		Newton	20,000
		Perry	4,000
		Scott	3,000
		Wayne	21,000
TOTAL	1,194,000		

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

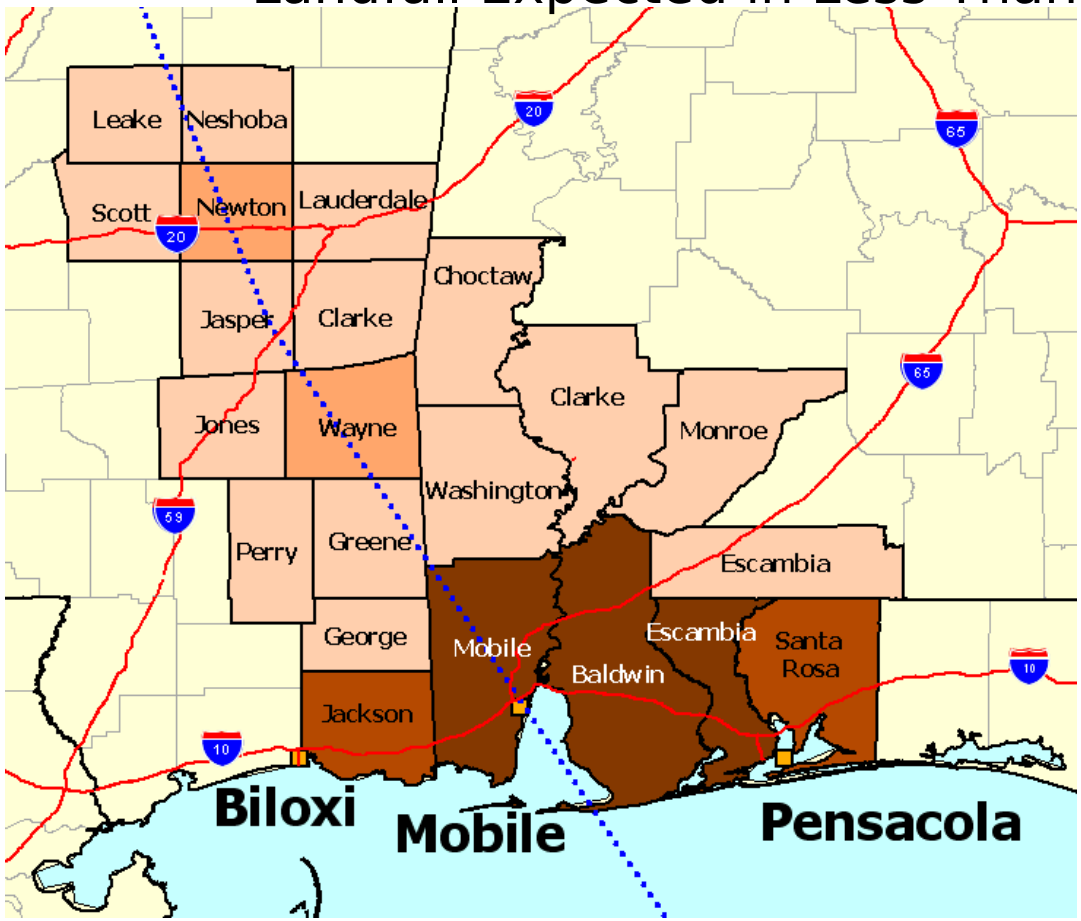
Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Households Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 146,000 households
Alabama – 222,000 households
Mississippi – 83,000 households

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/10/2005)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Households Model

Landfall Expected in Less Than **12** Hours

For Official Use Only!

State	Households per State	County	Households per County
Alabama	222,000		
		Baldwin	55,000
		Choctaw	2,000
		Clarke	2,000
		Escambia	5,000
		Mobile	150,000
		Monroe	1,000
		Washington	7,000
Florida	146,000		
		Escambia	112,000
		Santa Rosa	34,000
Mississippi	83,000		
		Clarke	6,000
		George	6,000
		Greene	4,000
		Jackson	37,000
		Jasper	4,000
		Jones	4,000
		Lauderdale	1,000
		Leake	1,000
		Neshoba	2,000
		Newton	8,000
		Perry	1,000
		Scott	1,000
		Wayne	8,000
TOTAL	451,000		

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Temporary Roofing Model Results

For Official Use Only!

Landfall Expected in Less Than 12 Hours

Most Probable Landfall Temporary Roofing Model Results

Florida – 2,300
Alabama – 11,900
Mississippi – 1,700

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500EDT 07/10/2005)*** forecast.

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, 6% of housing units damaged in CAT 3 wind areas, and 5% of housing units damaged in CAT 4 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Temp Roofing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Temporary Roofing Model Results

For Official Use Only!

12

State	Houseunits per State	County	Houseunits per County
Alabama	11,900		
		Baldwin	2,800
		Choctaw	100
		Clarke	100
		Escambia	100
		Mobile	8,600
		Monroe	100
		Washington	100
Florida	2,300		
		Escambia	2,000
		Santa Rosa	300
Mississippi	1,700		
		Clarke	100
		George	100
		Greene	100
		Jackson	400
		Jasper	100
		Jones	100
		Lauderdale	100
		Leake	100
		Neshoba	100
		Newton	100
		Perry	100
		Scott	100
		Wayne	200
TOTAL	15,900		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, 6% of housing units damaged in CAT 3 wind areas, and 5% of housing units damaged in CAT 4 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Roofing Model

Sources:
HURREVAC
LRL-DEBRIS

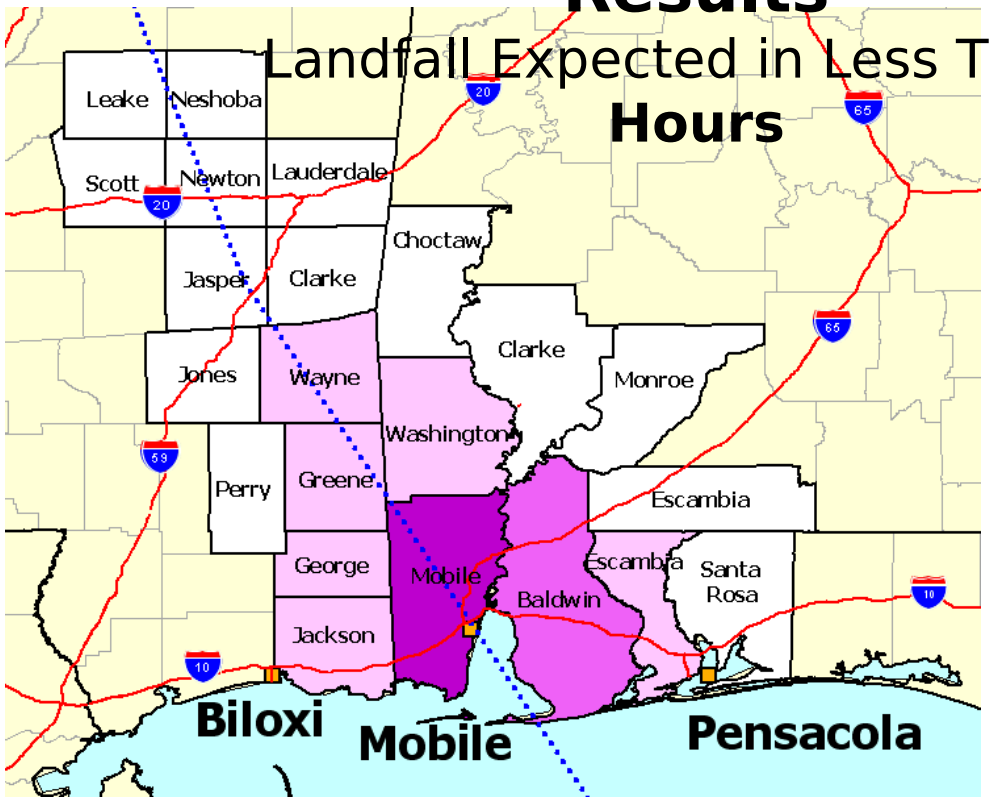
Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/10/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!

Landfall Expected in Less Than **12** Hours



Most Probable Landfall Temporary Housing Model Results

Florida – 900
Alabama – 8,800
Mississippi – 1,300

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Mobile, AL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 07/10/2005)*** forecast.

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, 4% of housing units lost in CAT 3 wind areas, and 7% of housing units lost in CAT 4 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!

n 12

State	Houseunits per State	County	Houseunits per County
Alabama	8,800		
		Baldwin	2,600
		Choctaw	100
		Clarke	100
		Escambia	100
		Mobile	5,700
		Monroe	100
		Washington	100
Florida	900		
		Escambia	800
		Santa Rosa	100
Mississippi	1,300		
		Clarke	100
		George	100
		Greene	100
		Jackson	100
		Jasper	100
		Jones	100
		Lauderdale	100
		Leake	100
		Neshoba	100
		Newton	100
		Perry	100
		Scott	100
		Wayne	100
TOTAL	11,000		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, 4% of housing units lost in CAT 3 wind areas, and 7% of housing units lost in CAT 4 wind areas .

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/10/2005